## In the Claims:

Claims 16-24 are withdrawn.

Please cancel claims 10 and 11.

Please enter amended claims 1-8, 12-16, and 22.

Please add claims 25-33.

1. (currently amended) A method for forming a non-volatile memory embedded logic circuit comprising the steps of:

providing a semiconductor substrate;

forming an isolation region structure on said semiconductor substrate to define isolate a first active device area, a second active device area, and a third active device area;

forming a first oxide layer on said first, second, and third active device areas simultaneously, said first oxide layer providing a high voltage logic gate oxide layer in said second device area;

etching said first oxide layer in said first and second active third device areas to expose said substrate underneath;

forming a second oxide layer in said first active device area simultaneously with said and second active third device area, thereby providing a tunnel oxide layer in said first active device area, a low voltage logic gate oxide layer in said second active third device area, and a high voltage logic gate oxide layer in said third active area; and

forming a floating gate <a href="layer">layer</a> on top of said <a href="first">first</a> oxide layer</a>[[s]].

2. (currently amended) The method of claim 1, wherein said isolation region structure is formed by a shallow trench isolation method.

- 3. (currently amended) The method of claim 1, wherein said isolation region structure is formed by a local oxidation of silicon method.
- 4. (currently amended) The method of claim 1, wherein said <a href="first">first</a> oxide layer[[s are]] is formed by thermal oxidation.
- 5. (currently amended) The method of claim [[2]]\_1, wherein said <u>first</u> oxide layer[[s are]]\_<u>is\_formed</u> by chemical vapor deposition.
- 6. (currently amended) The method of claim [[2]]\_1, wherein said <u>first</u> oxide layer[[s are]]\_is formed by atomic layer deposition.
- 7. (currently amended) The method of claim 1, wherein said first oxide layer is <u>formed to</u> approximately 250 Å thick.
- 8. (currently amended) The method of claim 1, wherein said second oxide layer is <u>formed to</u> approximately 70 Å thick.
- 9. (original) The method of claim 1, wherein said floating gate layer is a doped polysilicon layer.
- 10-11 (Cancelled)

12. (currently amended) A method for forming a non-volatile memory embedded logic circuit comprising the steps of:

providing a semiconductor substrate;

forming an isolation region structure on said semiconductor substrate to define a first active device area and a second active device area;

forming a first oxide layer on said first and second active device areas simultaneously, said first oxide layer forming a high voltage logic gate oxide layer in said second device area;

etching said first oxide layer in said first active device area to expose said substrate underneath;

forming a second oxide layer in said first active device area, thereby providing a tunnel oxide layer in said first active device area, and a high voltage logic gate oxide layer in said second active device area; and

forming a floating gate layer on top of said <u>second</u> oxide layers.

- 13. (currently amended) The method of claim [[10]] 12, wherein said <u>first</u> oxide layer[[s are]] <u>is</u> formed by thermal oxidation.
- 14. (currently amended) The method of claim [[10]] 12, wherein said second oxide layer is formed to approximately 70 Å thick.
- 15. (currently amended) The method of claim [[10]] 12, wherein said conductive layer floating gate layer is a doped polysilicon layer.

## 16-24 (withdrawn)

- 25. (new) The method of claim 1, wherein said second oxide layer is formed by thermal oxidation.
- 26. (new) The method of claim 1, wherein said second oxide layer is formed by chemical vapor deposition.
- 27. (new) The method of claim 1, wherein said second oxide layer is formed by atomic layer deposition.
- 28. (new) The method of claim 12, wherein said first oxide layer is formed by chemical vapor deposition.
- 29. (new) The method of claim 12, wherein said first oxide layer is formed by atomic layer deposition.
- 30. (new) The method of claim 12, wherein said second oxide layer is formed by thermal oxidation.
- 31. (new) The method of claim 12, wherein said second oxide layer is formed by chemical vapor deposition.
- 32. (new) The method of claim 12, wherein said second oxide layer is formed by atomic layer deposition.

33. (new) The method of claim 12, wherein said first oxide layer is approximately 250  $\hbox{\normalfont\AA}$  thick.